	Application No.	Applicant(s)
	10/659,680	SUNDERMANN ET AL.
Notice of Allowability	Examiner	Art Unit
	Samuel A. Barts	1621
The MAILING DATE of this communication application application application application application and communication applications being allowable, PROSECUTION ON THE MERITS erewith (or previously mailed), a Notice of Allowance (PTOL-8 OTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 35) or other appropriate commu RIGHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
☐ This communication is responsive to <u>amendment filed 1</u>	<u>1/18/05</u> .	
The allowed claim(s) is/are <u>1-32</u> .		
a) ☑ Acknowledgment is made of a claim for foreign priority a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents ha		or (f).
 Certified copies of the priority documents have 		on No. 00/545 510
Copies of the certified copies of the priority of the pri		
International Bureau (PCT Rule 17.2(a)).	documents have been received	a in this hadonal stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATI noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be substituted in the substitution of the substit substitution of the substitution of the substitution of the sub	NMENT of this application. omitted. Note the attached EXA	AMINER'S AMENDMENT or NOTICE OF
☐ CORRECTED DRAWINGS (as "replacement sheets") m		
(a) ☐ including changes required by the Notice of Draftspe		v (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	_	
(b) including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Comment or	in the Office action of
Identifying Indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in	• • •	•
DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN		
ttachment(s) Notice of References Cited (PTO-892)	5. ☐ Notice of Inf	formal Patent Application (PTO-152)
☐ Notice of Draftperson's Patent Drawing Review (PTO-948	<u> </u>	ummary (PTO-413),
☐ Information Disclosure Statements (PTO-1449 or PTO/SE	·	Mail Date Amendment/Comment
Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposi	t 8. ☐ Examiner's	Statement of Reasons for Allowance
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of Biological Material	9. 🗌 Other	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. J. D Evans on 1/9/2006.

This amendment is directed to correcting the claims in minor details. The changes are as follows:

- 1) In claim 1 the Roman numeral "I" is placed below the formula as oppose to being placed within the formula.
- 2) It was agreed that the word "ring", which was in the patented claims, was more precise than the word "chain". The examiner has deleted the word "chain" in every claim where it existed and replaced it with the original word "ring".
- 3) The compound "3-Amino-3-arylpropan-1-ol" has been renamed to 3-amino-3-arylpropan-1-ol to make claim 16 consistent with changes made in claim 1.

Please amend claims as follows:

¹ Claim 1-3, 5-10 and 16

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1. A [3-Amino-3-arylpropan-1-ol] <u>3-amino-3-arylpropan-1-ol</u> compound corresponding to formula I

$$R^3$$
 R^4
 R^1
 R^5

I

wherein

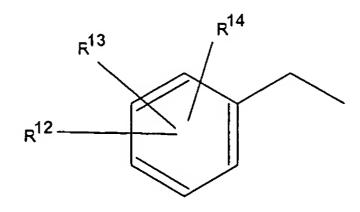
 R^1 and R^2 each independently denote C_{1-6} -alkyl, or R^1 and R^2 together form a $(CH_2)_{2-6}$ ring, which can also be benzo-fused or phenyl-substituted;

R³ denotes H or methyl;

 R^4 and R^5 each independently denote C_{1-6} -alkyl, C_{3-6} -cycloalkyl, phenyl, benzyl, or phenethyl, or R^4 and R^5 together form a $(CH_2)_{3-6}$ or $CH_2CH_2OCH_2CH_2$ ring;

A denotes a substituted or unsubstituted aryl radical, which optionally contains heteroatoms in the ring system;

X denotes a substituted benzyl group corresponding to formula XI



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or a substituted benzoyl group corresponding to formula XII

XII

wherein

each independently denote H, F, Cl, Br, CHF₂, CF₃, [OR¹¹, SR¹¹] OR¹⁵, SR¹⁵, R^{12} to R^{14} OCF₃, SO₂CH₃, SO₂CF₃, C₁₋₆-alkyl, phenyl, CN, [COOR¹¹] COOR¹⁵ or NO₂, where

 $[R^{11}] \underline{R}^{15}$ denotes H, C₁₋₆-alkyl, phenyl, benzyl, or phenethyl; and diastereomers or enantiomers thereof,

or a salt thereof with a physiologically acceptable acid,

with the proviso that if R1 and R² together form a (CH₂)₄ ring, R³ is H, A is a substituted phenyl group corresponding to formula XIII

XIII

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in which one of R^6 to R^{10} is OH and the remainder of R^6 to R^{10} are H, and X is a benzyl group corresponding to formula XI in which R^{12} to R^{14} are all H, then R^4 and R^5 are not both C_{1-2} -alkyl.

2. A compound according to claim 1, wherein \mathbb{R}^1 and \mathbb{R}^2 together form a $(CH_2)_6$ ring, which can be benzo-fused or phenyl-substituted.

- 3. A compound according to claim 1, wherein $[R_1]$ \underline{R}^1 and R^2 together form a $(CH_2)_4$ ring which can be benzo-fused or phenyl-substituted.
- 5. A compound according to claim 1, wherein A is a substituted phenyl group corresponding to formula XIII

wherein

each independently denote H, F, Cl, Br, I, CF₃, OH, OR¹¹, OCF₃, SR¹¹, SO₂CH₃, SO₂CF₃, C₁₋₆-alkyl, phenyl, CN, COOR¹¹ or NO₂, or R⁶ and R⁷ or R⁷ and R⁸ together form an OCH₂O or OCH₂CH₂O ring, and

 R^{11} denotes C_{1-6} -alkyl, phenyl, benzyl, or phenethyl, or a substituted or unsubstituted thiophene radical or furan radical.

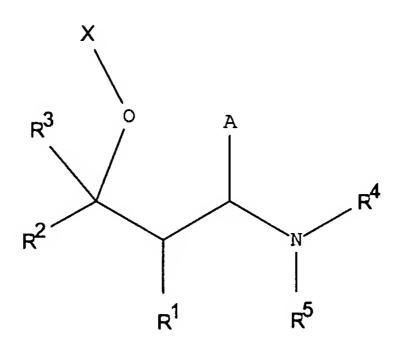
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6. A compound according to claim 1, wherein R^1 and R^2 together form a $(CH_2)_{2-6}$ ring, which can be benzo-fused or phenyl-substituted, and R^3 denotes hydrogen.

- 7. A compound according to claim 5, wherein R^1 and R^2 together form a $(CH_2)_4$ -ring, which can be benzo-fused or phenyl-substituted, and R^3 represents hydrogen.
- 8. A compound according to claim 5, wherein R^1 and R^2 together form a $(CH_2)_4$ -ring, and R^3 represents hydrogen.
- 9. A compound according to claim 1, [characterized in] wherein R¹ and R² together form a (CH₂)₄ ring, A represents a substituted or unsubstituted thiophene radical, and R³ represents hydrogen.
- 10. A [compounds] <u>compound</u> according to claim 1, wherein R¹ and R² together form a (CH₂)₄ ring, A represents a substituted or unsubstituted furan radical, and R³ represents hydrogen.
- 16. A process for preparing a [compound 3-Amino-3-arylpropan-1-ol] <u>3-amino-3-arylpropan-1-ol</u> compound corresponding to formula I



I

wherein

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 R^1 and R^2 each independently [denote] <u>denotes</u> C_{1-6} -alkyl, or R^1 and R^2 together form a $(CH_2)_{2-6}$ ring, which can also be benzo-fused or phenyl-substituted;

R³ denotes H or methyl;

R⁴ and R⁵ each independently [denote] <u>denotes</u> C₁₋₆-alkyl, C₃₋₆-cycloalkyl, phenyl, benzyl, or phenethyl, or R⁴ and R⁵ together form a (CH₂)₃₋₆ ring or CH₂CH₂OCH₂CH₂ ring;

A denotes a substituted or unsubstituted aryl radical, which optionally contains heteroatoms in the ring system;

X denotes a substituted benzyl group corresponding to formula XI

ΧĮ

or a substituted benzoyl group corresponding to formula XII

XII

wherein

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each independently [denote] <u>denotes</u> H, F, Cl, Br, CHF₂, CF₃, [OR¹¹, SR¹¹] <u>OR¹⁵</u>, <u>SR¹⁵</u>, OCF₃, SO₂CH₃, SO₂CF₃, C₁₋₆-alkyl, phenyl, CN, [COOR¹¹] <u>COOR¹⁵</u> or NO₂, where

 $[R^{11}]$ $\underline{R^{15}}$ denotes H, C_{1-6} -alkyl, phenyl, benzyl, or phenethyl;

said process comprising reacting a Mannich base corresponding to formula

$$R^2$$

$$R^1$$

$$R^5$$

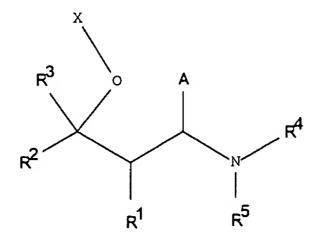
II

wherein R¹ to R⁵ and A have the meanings given above,

with a Grignard compound of formula (H₃C)Y, wherein Y denotes MgCl, MgBr, or MgI, or MeLi, or

with a reducing agent,

to give rise to an alcohol corresponding to formula Id



Id

wherein R¹ to R⁵ and A have the meanings given above; and

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then reacting said alcohol of formula Id with HalX, wherein Hal is a halogen selected from the group consisting of F, Cl, Br, and I, and X has the meaning given above in the presence of an inorganic or organic base at a temperature in the range from 0° to 150°C; or

then condensing said alcohol of formula Id with XOH at a temperature in the range from 0° to 150°C;

to obtain said compound of formula I.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel A. Barts whose telephone number is 571-272-2870. The examiner can normally be reached on 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Samuel A Barts
Primary Examiner
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